	Application No.	Applicant(s)
	10/712,177	WILLIG, REINHARDT L.
Notice of Allowability	Examiner	Art Unit
	Brian M. Healy	2883
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet we (OR REMAINS) CLOSED in or other appropriate communication is	ith the correspondence address n this application. If not included unication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the application filed 1</u>	<u>1/13/2003</u> .	
2. The allowed claim(s) is/are 1-28.		
3. X The drawings filed on 13 November 2003 are accepted by	the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application	on No`.
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EX es reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF r declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revie	w (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment o	r in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	ERIAL must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 0542265	6. ☐ Interview S Paper No. 08), 7. ☐ Examiner's	nformal Patent Application (PTO-152) Summary (PTO-413), /Mail Date S Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's	Statement of Reasons for Allowance Brian Healy
		Primary Exertiner

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DETAILED ACTION

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: The closest prior art of record, i.e. Stowe et. al., U.S.P. No. 5,138,676. teaches (Figs.1-15) an optical fiber coupler (and method of forming same) formed by input and output optical fibers 136,137 with each fiber having a tapered section 132,134 that are fused together at a fused fiber region 130 for propagating a fundamental mode.

Neither Stowe et. al. 676' or any of the other references of record, teaches a nethod of forming an optical device comprising: fusing portions of a plurality of optical fibers to form a fused fiber region; cleaving the fused fiber region to form a fused end; forming a spliced fiber by splicing an end of an independent optical fiber to the fused end such that the independent optical fiber is in optical communications with the plurality of the optical fibers and reducing a cross-section of the spliced fiber to form an optical device propagating light with a lowest-order even mode. These method steps are recited in claims 1-15 and are considered to be patentable over the teachings of Stowe et. al. and any of the other references of record.

Neither Stowe et. al. 676', or any of the other references of record, teaches or suggests, an optical device comprising: an input region comprising a portion of a first optical fiber and a portion of a coreless optical fiber; a fused fiber region in optical communications with the input region, a portion of the fused fiber region having a diameter less than the input region; and an output region in optical communications with the fused fiber region with the output region comprising a portion of the first and a

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second optical fiber; wherein the input region, the fused fiber region and the output region propagates a lowest –order even mode. These optical device limitations are recited in claims 16-28 and are considered to be patentable over the teachings of Stowe et. al. and any of the other references of record.

A copy of PTO-1449 will be included in this Office action. A number of references have been cited on PTO-892 by the Examiner as background art only. The claimed limitations fully distinguish over the teachings of these cited references.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian M. Healy whose telephone number is (5710272-2347. The examiner can normally be reached on Compressed schedule Tues-Thurs. 7AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571)272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian M. Healy Primary Examiner Art Unit 2883

Brian Healy Primary Examiner